



NCDOT Prioritization 3.0 Project Summary

SPOT ID: H090202-B

Mode: Highway

Status: Submitted

US-52 (New Route - Rockwell Bypass)

From/Cross Street: US 52 South of Rockwell

Specific Improvement Type: 6 - Widen Existing Roadway and Construct Part on New Location

To: US 52 North of Rockwell at Granite Quarry Bypass

Project Category: Statewide Mobility

Length: 3.39

TIP#: R-2903

Fully Funded in Draft STIP? No

Cost to NCDOT: \$51,894,000

Description:

Construct Multi-Lanes on New Location.

Division(s): Division 9

County(s): ROWAN

MPOS(s)/RPO(s): Cabarrus Rowan MPO

Project Location



Statewide Mobility Total Score: 19.53

Quantitative Score	Division Engineer Local Input Points	MPO/RPO Local Input Points
Congestion (V/C) (30%) 28.64 Safety (10%) 78.90 Economic Competitiveness (10%) 13.60 Multimodal + [Freight & Military] (20%) 4.37 [Travel Time] Benefit/Cost (30%) 2.70	N/A	N/A
Totals: Weight: 100% Weighted Score: 19.53		

Regional Impact Total Score: 33.4

Quantitative Score	Division Engineer Local Input Points	MPO/RPO Local Input Points
Congestion (V/C) (25%) 28.64 Safety (10%) 78.90 [Travel Time] Benefit/Cost (25%) 2.70 Accessibility / Connectivity (10%) 26.71	Percent: 15% Points: 0	Percent: 15% Points: 100
Totals: Weight: 70% Weighted Score: 18.4		

Division Needs Total Score: 14.16

Quantitative Score	Division Engineer Local Input Points	MPO/RPO Local Input Points
Congestion (V/C) (20%) 28.64 Safety (10%) 78.90 [Travel Time] Benefit/Cost (20%) 2.70	Percent: 25% Points: 0	Percent: 25% Points: 0
Totals: Weight: 50% Weighted Score: 14.16		

Project Data ***Existing Conditions**

Existing Cross-Section:	
Speed Limit:	44
Length (miles):	3.6
Facility Type:	Arterial
Access Control:	None
Functional Classification:	Other Principal Arterial
Terrain Type:	Rolling
Lane Width:	12
Paved Shoulder Width:	1
Roadway has Curb & Gutter?	Yes
Volume (AADT):	10014.74
Capacity:	24393.79
Volume/Capacity Ratio:	0.41
% Autos:	91%
% Trucks:	9%
Truck Volume:	874.42
Crash Density:	87.22
Crash Severity:	70.67
Critical Crash Rate:	78.82
Crash Frequency:	0
Severity Index:	0
County Tier Designation:	2
Non-Interstate STRAHNET Route?	No
Average Commuting Time:	20
Existing Median Type (for Cost Estimation):	Undivided
Pavement Condition Rating:	90
Actual Congested Speed:	42.8
Travel Time Index:	1.03

Project Benefits

Project Cross-Section:	4A - 4 Lane Divided (46' Depressed Median) with Paved Shoulders
Speed Limit:	55
Length (miles):	3.39
Facility Type:	Multi-Lane Highway
Access Control:	Partial
Functional Classification:	Other Principal Arterial
Terrain Type:	Rolling
DOT Design Lane Width:	12
DOT Design Paved Shoulder Width:	4
Travel Time Savings for 30 Years (Total):	6155794.29
Travel Time Savings for 30 Years (Autos):	5618308.39
Travel Time Savings for 30 Years (Trucks):	537485.9
Long-Term Employment:	108
% Change in Economy:	0.00016391
Provides Direct Connection to Transportation Terminal?	No
Does project upgrade how the roadway functions?	Yes
In CTP or LRTP?	No
CTP/LRTP Name:	
CTP/LRTP Completion Year:	
Submitted by:	Division 9

* Data reflects calculations which include weighted averages (where applicable) and represent raw output from the Department's SPOT OnLine tool and associated databases.

Project Ownership**Division**

Division	Percent	Regional Impact	Division Needs
Division 9	100%	0	0
	0%	0	0
	0%	0	0
TOTAL Division Points		0	0

MPO/RPO

MPO/RPO	Percent	Regional Impact	Division Needs
Cabarrus Rowan MPO	100%	100	0
	0%	0	0
	0%	0	0
TOTAL MPO/RPO Points		100	0

Project Cost and Source

Construction Cost:	\$32,433,000	Cost Estimation Tool
Right-of-Way Cost:	\$17,376,000	Cost Estimation Tool
Utilities Cost:	\$2,085,000	Cost Estimation Tool
Total Project Cost:	\$51,894,000	
Other Funding:	\$0	None
Cost to NCDOT :	\$51,894,000	